

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1635.0190002/JMC/AESAPPLICATION NO.
10/820,036APPLICANT
Dante J. MarcianiFILING DATE
April 8, 2004ART UNIT
1653

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
EP	AAI	4,713,339	12/15/1987	Levinson <i>et al.</i>			01/19/1983
EP	ABI	4,897,355	01/30/1990	Eppstein <i>et al.</i>			10/29/1987
EP	ACI	4,965,196	10/23/1990	Levinson <i>et al.</i>			09/24/1987
EP	ADI	5,057,540	10/15/1991	Kensil <i>et al.</i>			08/27/1990
EP	AEI	5,264,618	11/23/1993	Felgner <i>et al.</i>			04/16/1991
EP	AFI	5,273,965	12/28/1993	Kensil <i>et al.</i>			07/02/1992
EP	AGI	5,583,112	12/10/1996	Kensil <i>et al.</i>			07/02/1992
EP	AHI	5,861,397	01/19/1999	Wheeler			10/03/1996
EP	AII	5,977,081	11/02/1999	Marciani			05/20/1998
EP	AJI	6,080,725	06/27/2000	Marciani			04/13/1999
EP	AKI	6,262,029	07/17/2001	Press <i>et al.</i>			08/13/1999

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
EP	ALI	WO 02/102407	12/27/2002	WIPO			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

EP	AR	1	Altman-Hamamdziec, S., <i>et al.</i> , "Expression of β -galactosidase in mouse brain: utilization of a novel nonreplicative Sindbis virus vector as a neuronal gene delivery system," <i>Gene Ther.</i> 4:815-822, Nature Publishing Group (1997)
EP	AS	1	ApSimon, J.W., <i>et al.</i> , "Saponins from Marine Invertebrates," <i>Stud. Org. Chem.</i> 17:273-286, Elsevier (1984)
EP	AT	1	Behr, J-P., <i>et al.</i> , "Efficient gene transfer into mammalian primary endocrine cells with lipopolyamine-coated DNA," <i>Proc. Natl. Acad. Sci. USA</i> 86:6982-6986, National Academy of Sciences (1989)

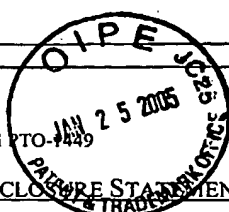
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FORM PTO-449

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EP	AA2	2002/0150585	10/17/2002	Marciani			04/03/2002
EP	AB2	2004/0220142	11/04/2004	Marciani			06/03/2004
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	AN						Yes No
	AO						Yes No
	AP						Yes No

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EP	AR	2	Bomford, R., <i>et al.</i> , "Adjuvantcity and ISCOM formation by structurally diverse saponins," <i>Vaccine</i> 10:572-577, Elsevier (1992)
EP	AS	2	Boyer, J., <i>et al.</i> , "Protection of chimpanzees from high-dose heterologous HIV-1 challenge by DNA vaccination," <i>Nat. Med.</i> 3:526-532, Nature Publishing Group (1997)
EP	AT	2	Boyle, J.S., <i>et al.</i> , "DNA immunization: Induction of higher avidity antibody and effect of route on T cell cytotoxicity," <i>Proc. Nat. Acad. Sci. USA</i> 94:14626-14631, National Academy of Sciences (1997)

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EP	AR	3	Chang, K.L.B., <i>et al.</i> , "Kinetics and Products of the Degradation of Chitosan by Hydrogen Peroxide," <i>J. Agric. Food Chem.</i> 49:4845-4851, American Chemical Society (2001)
EP	AS	3	Dalsgaard, K., "A Study of the Isolation and Characterization of the Saponin Quil A. Evaluation of its Adjuvant Activity, with a Special Reference to the Application in the Vaccination of Cattle Against Foot-and-Mouth Disease," <i>Acta Vet. Scand.</i> 19 (Suppl. 69):1-40, Danske Dyrlageforening (1978)
EP	AT	3	Dalsgaard, K., "Saponin Adjuvants," <i>Arch. Gesamte Virusforsch.</i> 44:243-254, Springer-Verlag (1974)

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EP	AR	4	Davis, H.L., <i>et al.</i> , "Direct gene transfer in skeletal muscle: plasmid DNA-based immunization against the hepatitis B virus surface antigen," <i>Vaccine</i> 12:1503-1509, Elsevier (1994)
EP	AS	4	Dow, S.W., <i>et al.</i> , "Lipid-DNA Complexes Induce Potent Activation of Innate Immune Responses and Antitumor Activity When Administered Intravenously," <i>J. Immunol.</i> 163:1552-1561, American Association of Immunologists (1999)
EP	AT	4	Felgner, P.L., and Ringold, G.M., "Cationic liposome-mediated transfection," <i>Nature</i> 337:387-388, Nature Publishing Group (1989)

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EP	AR	5	Felgner, P.L., <i>et al.</i> , "Lipofection: A highly efficient, lipid-mediated DNA-transfection procedure," <i>Proc. Natl. Acad. Sci. USA</i> 84:7413-7417, National Academy of Sciences (1987)
EP	AS	5	Gramzinski, R., <i>et al.</i> , "Immune Response to a Hepatitis B DNA Vaccine in <i>Aotus</i> Monkeys: A Comparison of Vaccine Formulation, Route, and Method of Administration," <i>Mol. Med.</i> 4:109-118, Blackwell Scientific Publications (1998)
EP	AT	5	Häcker, G., <i>et al.</i> , "Activation of the immune system by bacterial CpG-DNA," <i>Immunology</i> 105:245-251, Blackwell Scientific Publications (March 2002)

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EP	AR	6	Higuchi, R., and Komori, T., "Structures of Compounds Derived from the Acyl Moieties of Quillajasaponin," <i>Phytochemistry</i> 26:2357-2360, Pergamon Press (1987)
EP	AS	6	Higuchi, R., et al., "An Acylated Triterpenoid Saponin from <i>Quillaja Saponaria</i> ," <i>Phytochemistry</i> 27:1165-1168, Pergamon Press (1988)
EP	AT	6	Higuchi, R., et al., "Structure of Deacylsaponins Obtained from the Bark of <i>Quillaja Saponaria</i> ," <i>Phytochemistry</i> 26:229-235, Pergamon Press (1987)

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EP	AR	7	Hostettmann, K., <i>et al.</i> , "Saponins," <i>Methods Plant Biochem.</i> 7:435-471, Academic Press (1991)
EP	AS	7	Kensil, C.R., <i>et al.</i> , "Separation and Characterization of Saponins with Adjuvant Activity from <i>Quillaja saponaria</i> Molina Cortex," <i>J. Immunol.</i> 146:431-437, American Association of Immunologists (1991)
EP	AT	7	Kensil, C.R., <i>et al.</i> , "Structure/Function Relationship in Adjuvants from <i>Quillaja saponaria</i> Molina," <i>Vaccines</i> 92:35-40, Cold Spring Harbor Laboratory Press (1992)

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EP	AR	8	Klinman, D.M., <i>et al.</i> , "CpG motifs present in bacterial DNA rapidly induce lymphocytes to secrete interleukin 6, interleukin 12, and interferon γ ," <i>Proc. Natl. Acad. Sci. USA</i> 93:2879-2883, National Academy of Sciences (1996)
EP	AS	8	Korman, A.J., <i>et al.</i> , "Expression of human class II major histocompatibility complex antigens using retrovirus vectors," <i>Proc. Nat. Acad. Sci. USA</i> 84:2150-2154, National Academy of Sciences (1987)
EP	AT	8	Lacaille-Dubois, M.A., and Wagner, H., "A review of the biological and pharmacological activities of saponins," <i>Phytomedicine</i> 2:363-386, Gustav Fischer Verlag (1996)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

EP	AR	2	Massiot, G., and Lavaud, C., "Structural Elucidation of Saponins," <i>Stud. Nat. Prod. Chem.</i> 15:187-224, Elsevier Science B.V. (1995)
EP	AS	2	Pillion, D.J., <i>et al.</i> , "Structure-Function Relationship among <i>Quillaja</i> Saponins Serving as Excipients for Nasal and Ocular Delivery of Insulin," <i>J. Pharm. Sci.</i> 85:518-524, American Pharmaceutical Association (1996)
EP	AT	2	Press, J.B., <i>et al.</i> , "Structure/Function Relationships of Immunostimulating Saponins," <i>Stud. Nat. Prod. Chem.</i> 24:131-174, Elsevier (2000)

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EP	AR	<u>10</u>	Price, K.R., <i>et al.</i> , "The Chemistry and Biological Significance of Saponins in Foods and Feedingstuffs," <i>CRC Crit. Rev. Food Sci. Nutr.</i> 26:27-135, CRC Press (1987)
EP	AS	<u>10</u>	Ren, T., <i>et al.</i> , "Synthesis of bifunctional cationic compound for gene delivery," <i>Tetrahedron Lett.</i> 42:1007-1010, Pergamon Press (2001)
EP	AT	<u>10</u>	Sahu, N.P., <i>et al.</i> , "Triterpenoid Saponins from <i>Gymnema sylvestre</i> ," <i>Phytochemistry</i> 41:1181-1185, Pergamon Press Ltd. (1996)

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EP	AR	<u>11</u>	Sasaki, S., <i>et al.</i> , "Induction of Systemic and Mucosal Immune Responses to Human Immunodeficiency Virus Type 1 by a DNA Vaccine Formulated with QS-21 Saponin Adjuvant via Intramuscular and Intranasal Routes," <i>J. Virol.</i> 72:4931-4939, American Society for Microbiology (1998)
EP	AS	<u>11</u>	Schöpke, Th., and Hiller, K., "Triterpenoid saponins. Part 6," <i>Die Pharmazie</i> 45:313-342, Verlag Pharmazautischer (1990)
EP	AT	<u>11</u>	Schrijver, R.S., <i>et al.</i> , "Immunization of cattle with a BHV1 vector vaccine or a DNA vaccine both coding for the G protein of BRSV," <i>Vaccine</i> 15: 1908-1916, Elsevier (1997)

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EP	AR	12	Shibata, S., "Saponins with Biological and Pharmacological Activity," in <i>New Natural Products and Plant Drugs with Pharmacological, Biological or Therapeutical Activity</i> , Wagner, H., and Wolff, P., eds., Springer-Verlag, Berlin, DE, pp. 177-196 (1977)
EP	AS	12	Siders, W.F., <i>et al.</i> , "Tumor Treatment with Complexes of Cationic Lipid and Noncoding Plasmid DNA Results in the Induction of Cytotoxic T Cells and Systemic Tumor Elimination," <i>Mol. Ther.</i> 6:519-527, Academic Press (October 2002)
EP	AT	12	Singh, M., and O'Hagan, D., "Advances in vaccine adjuvants," <i>Nat. Biotechnol.</i> 17:1075-1081, Nature America Publishing (1999)

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EP	AR	13	Spier, R.E., "International Meeting on the Nucleic Acid Vaccines for the Prevention of Infectious Disease and Regulating Nucleic Acid (DNA) vaccines," <i>Vaccine 14</i> :1285-1288, Elsevier (1996)
EP	AS	13	Vahlsing, H.L., <i>et al.</i> , "Immunization with plasmid DNA using a pneumatic gun," <i>J. Immunol. Methods 175</i> :11-22, Elsevier (1994)
EP	AT	13	Yamamoto, S., <i>et al.</i> , "DNA from Bacteria, but Not from Vertebrates, Induces Interferons, Activates Natural Killer Cells and Inhibits Tumor Growth," <i>Microbiol. Immunol. 36</i> :983-997, Japanese Society For Bacteriology (1992)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

EP	AR	14	Yamamoto, T., <i>et al.</i> , "Lipofection of Synthetic Oligodeoxyribonucleotide Having a Palindromic Sequence of AACGTT to Murine Splenocytes Enhances Interferon Production and Natural Killer Activity," <i>Microbiol. Immunol.</i> 38:831-836, Japanese Society For Bacteriology (1994)
	AS		
	AT		

EXAMINER /Elli Pesellev/

DATE CONSIDERED 11/09/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.